

Refine Search

Search Results -

Terms	Documents
L20 and L22	3

Database:

US Pre-Grant Publication Full-Text Database
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Search:

L23

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Recall Text

Clear

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Search History

 DATE: Friday, January 09, 2004 [Printable Copy](#) [Create Case](#)

Set
 Name Query
 side by
 side

Hit Set
 Count Name
 result
 set

DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ

<u>L23</u> L20 and L22	3	<u>L23</u>
<u>L22</u> L1 and l11	108	<u>L22</u>
<u>L21</u> l19 and L20	116	<u>L21</u>
<u>L20</u> 504/106.ccls.	122	<u>L20</u>
<u>L19</u> L11 and l11	7798	<u>L19</u>
<u>L18</u> ('6479432')!.ABPN1,NRPN,PN,WKU.	2	<u>L18</u>
<u>L17</u> L16 not l15	14	<u>L17</u>
<u>L16</u> L1 and l2	28	<u>L16</u>
<u>L15</u> l1 and L14	14	<u>L15</u>
<u>L14</u> l2 and L12	31	<u>L14</u>
<u>L13</u> l6 and L12	0	<u>L13</u>
<u>L12</u> l2 same L11	31	<u>L12</u>
<u>L11</u> safen\$4 or antidot\$5	7798	<u>L11</u>

<u>L10</u>	16 and 12	1	<u>L10</u>
<u>L9</u>	12 and L8	0	<u>L9</u>
<u>L8</u>	11 and L6	17	<u>L8</u>
<u>L7</u>	11 and L6	17	<u>L7</u>
<u>L6</u>	benzoylisoxazol\$2 same herbicid\$7	90	<u>L6</u>
<u>L5</u>	13 and L4	8	<u>L5</u>
<u>L4</u>	L2.ab.	19	<u>L4</u>
<u>L3</u>	L1.ab.	54	<u>L3</u>

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

<u>L2</u>	Isoxadifen or (dihydro adj3 diphenyl adj3 (isoxazolecarboxyl\$3 or (oxazol\$2 adj2 carboxyl\$3)))	56	<u>L2</u>
<u>L1</u>	Isoxaflutole or rpa201772 or (rpa 201772) or (Cyclopropyl adj3 (oxazol\$2 or isoxazol\$2) adj5 (((trifluoro or trifluoromethyl) near2 (mesyl or methylsulfonyl or methylsulphonyl)) adj2 (phenyl or tolyl) adj (methanone or ketone)) or ((mesyl or methylsulfonyl or methylsulphonyl) adj2 (trifluoromethylphenylmethanone or trifluoromethylphenylketone or (trifluoromethyl adj phenyl adj (methanone or ketone)) or (trifluoromethylphenyl (methanone or ketone)))) or ((mesyltrifluoromethylphenyl or methylsulfonyltrifluoromethylphenyl or methylsulphonyltrifluoromethylphenyl) adj (methanone or ketone)))) or (cyclopropyl adj3 (mesyl or methylsulfonyl or methylsulphonyl) adj2 (trifluoromethylbenzoylisoxazol\$2 or (trifluoromethylbenzoyl adj isoxazol\$2) or (trifluoromethyl adj (benzoylisoxazol\$2 or (benzoyl isoxazol\$2))))))	340	<u>L1</u>

END OF SEARCH HISTORY

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Clear

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: WO 2003047346 A1, DE 10159659 A1

L5: Entry 1 of 8

File: DWPI

Jun 12, 2003

DERWENT-ACC-NO: 2003-541517

DERWENT-WEEK: 200351

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TITLE: Herbicidal composition, especially for selective weed control in crops such as cereals, containing N-sulfonyl-anilide derivative and another herbicide, e.g. bromoxynil, and/or safener, e.g. mefenpyr-diethyl

INVENTOR: ANDREE, R; DAHMEN, P ; DREWES, M W ; FEUCHT, D ; LINKER, K ; PONTZEN, R

PRIORITY-DATA: 2001DE-1059659 (December 5, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 2003047346 A1</u>	June 12, 2003	G	135	A01N043/54
<u>DE 10159659 A1</u>	June 26, 2003		000	A01N043/707

INT-CL (IPC): A01 N 43/54; A01 N 43/653; A01 N 43/707

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWAC	Draw D
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☐ 2. Document ID: DE 10129856 A1, WO 2003000058 A1

L5: Entry 2 of 8

File: DWPI

Jan 2, 2003

DERWENT-ACC-NO: 2003-383129

DERWENT-WEEK: 200337

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Synergistic herbicidal composition, especially for selective weed control in crops such as wheat, contains bis-pyrimidinyloxy-benzoic acid derivative, triazolone derivative and another herbicide e.g. acetochlor

INVENTOR: DAHMEN, P; DREWES, M W ; FEUCHT, D ; FUERSCH, H ; KREMER, M ; PONTZEN, R ; WELLMANN, A

PRIORITY-DATA: 2001DE-1029856 (June 21, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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DE 10129856 A1 January 2, 2003 021 A01N043/54
 WO 2003000058 A1 January 3, 2003 G 000 A01N043/54

INT-CL (IPC): A01 N 43/54; A01 N 43/653; A01 N 47:38; A01 N 47:36; A01 N 47:30; A01 N 43:90; A01 N 43:707; A01 N 43:653 ; A01 N 43:50; A01 N 43:40; A01 N 43/54; A01 N 41:10; A01 N 25:32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 3. Document ID: WO 200271845 A1, DE 10112104 A1

L5: Entry 3 of 8

File: DWPI

Sep 19, 2002

DERWENT-ACC-NO: 2002-691779

DERWENT-WEEK: 200355

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Synergistic herbicidal composition, especially for selective weed control in crops such as rice, containing aryl ketone derivative, another herbicide, e.g. acetochlor, and optionally safener

INVENTOR: DAHMEN, P; DREWES, M ; FEUCHT, D ; GOTO, T ; LEHR, S ; MUELLER, K ;
 PONTZEN, R ; SCHWARZ, H ; SHIRAKURA, S ; DREWES, M W

PRIORITY-DATA: 2001DE-1012104 (March 14, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200271845 A1	September 19, 2002	G	121	A01N043/80
DE 10112104 A1	September 26, 2002		000	A01N043/36

INT-CL (IPC): A01 N 43/34; A01 N 43/36; A01 N 43/48; A01 N 43/50; A01 N 43/54; A01 N 43/64; A01 N 43/653; A01 N 43/713; A01 N 43/72; A01 N 43/74; A01 N 43/80; A01 N 43/84; A01 N 43/86; A01 N 43/88; A01 N 61:00; A01 N 61:00; A01 N 61:00; A01 N 61:00; A01 N 61:00; A01 N 43/80; A01 N 43/713; A01 N 43/653; A01 N 43/54; A01 N 43/50

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 4. Document ID: CN 1407854 A, DE 19958381 A1, WO 200139597 A2, AU 200126691 A, BR 200016120 A, KR 2002059758 A, EP 1278413 A2, JP 2003517473 W

L5: Entry 4 of 8

File: DWPI

Apr 2, 2003

DERWENT-ACC-NO: 2001-433869

DERWENT-WEEK: 200345

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Synergistic herbicidal composition useful for selective weed control in crops, e.g. barley or maize, containing N-phenyl-uracil derivative, another herbicide, e.g. acetochlor, and optionally safener

INVENTOR: ANDREE, R; DAHMEN, P ; DREWES, M W ; FEUCHT, D ; KRAUSKOPF, B ; KREMER, M ; PONTZEN, R ; WETCHOLOWSKY, I ; DREWES, M

PRIORITY-DATA: 1999DE-1058381 (December 3, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1407854 A	April 2, 2003		000	A01N043/54
DE 19958381 A1	June 7, 2001		038	A01N043/54
WO 200139597 A2	June 7, 2001	G	000	A01N043/54
AU 200126691 A	June 12, 2001		000	A01N043/54
BR 200016120 A	August 27, 2002		000	A01N043/54
KR 2002059758 A	July 13, 2002		000	A01N043/54
EP 1278413 A2	January 29, 2003	G	000	A01N043/54
JP 2003517473 W	May 27, 2003		159	A01N043/54

INT-CL (IPC): A01 N 25/32; A01 N 33/18; A01 N 33/20; A01 N 33:18; A01 N 37/20; A01 N 37/22; A01 N 39/04; A01 N 41/10; A01 N 43/00; A01 N 43/42; A01 N 43/50; A01 N 43/54; A01 N 43/56; A01 N 43/64; A01 N 43/653; A01 N 43/70; A01 N 43/707; A01 N 43/76; A01 N 43/78; A01 N 43/80; A01 N 43/824; A01 N 43/84; A01 N 47/34; A01 N 47/36; A01 N 47/38; A01 N 57/20; A01 N 57/30; A01 N 37:22; A01 N 39:04; A01 N 43/54; A01 N 43:50; A01 N 43:653; A01 N 43:70; A01 N 43:707; A01 N 43:80; A01 N 43:824; A01 N 47:36; A01 N 47:38; A01 N 57:20; A01 N 57:20; A01 N 47:38; A01 N 47:36; A01 N 43:824; A01 N 43:80; A01 N 43:707; A01 N 43:70; A01 N 43:653; A01 N 43:50 ; A01 N 43/54; A01 N 39:04; A01 N 37:22; A01 N 33:18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Keywords	Drawings
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☐ 5. Document ID: HU 200301968 A2, DE 19960778 A1, WO 200135740 A2, AU 200110287 A, BR 200015668 A, CZ 200201693 A3, ZA 200202889 A, EP 1351571 A2

L5: Entry 5 of 8

File: DWPI

Sep 29, 2003

DERWENT-ACC-NO: 2001-458241

DERWENT-WEEK: 200369

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TITLE: Synergistic herbicidal composition useful for selective weed control in crops, especially cereals, comprises pyridine derivative, another herbicide, e.g. flufenacet, and optionally safener and/or further herbicide

INVENTOR: DAHMEN, P; FEUCHT, D ; KRAUSKOPF, B ; KREMER, M ; WELLMANN, A ; WELLMANN, A

PRIORITY-DATA: 1999DE-1055128 (November 17, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
HU 200301968 A2	September 29, 2003		000	A01N043/40
DE 19960778 A1	May 23, 2001		014	A01N043/40
WO 200135740 A2	May 25, 2001	G	000	A01N043/40
AU 200110287 A	May 30, 2001		000	A01N043/40
BR 200015668 A	July 23, 2002		000	A01N043/40
CZ 200201693 A3	August 14, 2002		000	A01N043/40
ZA 200202889 A	June 25, 2003		067	A01N000/00

EP 1351571 A2 October 15, 2003 G 000 A01N043/40

INT-CL (IPC): A01 N 0/00; A01 N 25/32; A01 N 37/22; A01 N 37:22; A01 N 43/40; A01 N 43/56; A01 N 43/653; A01 N 43/707; A01 N 43/713; A01 N 43/78; A01 N 43/824; A01 N 47/00; A01 N 47/36; A01 N 47/38; A01 N 43/40; A01 N 43:56; A01 N 43:707; A01 N 43:713; A01 N 43:78; A01 N 43:824; A01 N 47:36; A01 N 47:38; A01 N 43/56; A01 N 43:56; A01 N 43:707; A01 N 43:713; A01 N 43:78; A01 N 43:824; A01 N 47:36; A01 N 47:38; A01 N 37:22; A01 N 37:22; A01 N 43/40; A01 N 43/56; A01 N 43:56; A01 N 43:56; A01 N 43:707; A01 N 43:707; A01 N 43:713; A01 N 43:713; A01 N 43:78; A01 N 43:78; A01 N 43:824; A01 N 43:824; A01 N 47:36; A01 N 47:36; A01 N 47:38; A01 N 47:38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 6. Document ID: MX 2002004904 A1, DE 19960918 A1, WO 200135741 A2, AU 200110294 A, BR 200015701 A, EP 1233672 A2, CZ 200201728 A3, CN 1391439 A, HU 200203400 A2, ZA 200202759 A

L5: Entry 6 of 8

File: DWPI

Jan 1, 2003

DERWENT-ACC-NO: 2001-443205

DERWENT-WEEK: 200373

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TITLE: Synergistic herbicidal composition useful for selective weed control in crops, especially cereals, containing tritosulfuron, and other specific herbicides, e.g. flufenacet, and optionally safener and/or further herbicide

INVENTOR: DAHMEN, P; FEUCHT, D ; KRAUSKOPF, B ; KREMER, M ; WELLMANN, A

PRIORITY-DATA: 1999DE-1055407 (November 18, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>MX 2002004904 A1</u>	January 1, 2003		000	A01N047/36
<u>DE 19960918 A1</u>	May 23, 2001		012	A01N047/36
<u>WO 200135741 A2</u>	May 25, 2001	G	000	A01N047/36
<u>AU 200110294 A</u>	May 30, 2001		000	A01N047/36
<u>BR 200015701 A</u>	July 23, 2002		000	A01N047/36
<u>EP 1233672 A2</u>	August 28, 2002	G	000	A01N047/36
<u>CZ 200201728 A3</u>	October 16, 2002		000	A01N047/36
<u>CN 1391439 A</u>	January 15, 2003		000	A01N047/36
<u>HU 200203400 A2</u>	March 28, 2003		000	A01N047/36
<u>ZA 200202759 A</u>	June 25, 2003		059	A01N000/00

INT-CL (IPC): A01 N 0/00; A01 N 39/00; A01 N 43/00; A01 N 47/36

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 7. Document ID: DE 19947918 A1, EP 1221844 A2, WO 200124633 A2, AU 200077812 A

L5: Entry 7 of 8

File: DWPI

Apr 12, 2001

DERWENT-ACC-NO: 2001-357085

DERWENT-WEEK: 200254

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Synergistic herbicidal composition useful for selective weed control in crops, especially cereals, containing bis-pyrimidinyloxy-benzoic acid derivative, another herbicide, e.g. acetochlor, and optionally safener

INVENTOR: FEUCHT, D; FUERSCH, H ; KREMER, M ; WELLMANN, A

PRIORITY-DATA: 1999DE-1047918 (October 6, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 19947918 A1</u>	April 12, 2001		016	A01N043/54
<u>EP 1221844 A2</u>	July 17, 2002	G	000	A01N043/00
<u>WO 200124633 A2</u>	April 12, 2001	G	000	A01N043/00
<u>AU 200077812 A</u>	May 10, 2001		000	A01N043/00

INT-CL (IPC): A01 N 43/00; A01 N 43/54

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Attachments	Claims	KWIC	Draw De
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☐ 8. Document ID: MX 2002003260 A1, DE 19962017 A1, WO 200122819 A1, AU 200075198 A, BR 200014670 A, CZ 200201141 A3, EP 1221848 A1, KR 2002035601 A, HU 200202780 A2, CN 1378424 A, JP 2003510258 W

L5: Entry 8 of 8

File: DWPI

Dec 1, 2002

DERWENT-ACC-NO: 2001-382758

DERWENT-WEEK: 200377

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TITLE: Synergistic herbicidal agents containing N-aryl-triazolinone and N-aryl-triazolinethione derivatives, useful for selective weed control in crops

INVENTOR: DAHMEN, P; DREWES, M W ; FEUCHT, D ; HAAS, W ; KRAUSKOPF, B ; KREMER, M ; PONTZEN, R ; WELLMANN, A ; DREWES, M

PRIORITY-DATA: 1999DE-1046855 (September 30, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>MX 2002003260 A1</u>	December 1, 2002		000	A01N025/32
<u>DE 19962017 A1</u>	April 5, 2001		014	A01N043/653
<u>WO 200122819 A1</u>	April 5, 2001	G	000	A01N043/653
<u>AU 200075198 A</u>	April 30, 2001		000	A01N043/653
<u>BR 200014670 A</u>	June 18, 2002		000	A01N043/653
<u>CZ 200201141 A3</u>	June 12, 2002		000	A01N043/653
<u>EP 1221848 A1</u>	July 17, 2002	G	000	A01N043/653
<u>KR 2002035601 A</u>	May 11, 2002		000	A01N043/653

<u>HU 200202780 A2</u>	December 28, 2002	000	A01N043/653
<u>CN 1378424 A</u>	November 6, 2002	000	A01N043/653
<u>JP 2003510258 W</u>	March 18, 2003	068	A01N043/653

INT-CL (IPC): A01 N 25/32; A01 N 37/20; A01 N 43/653; A01 N 49/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Excluded	Archived	Claims	KMIC	Draw De
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Clear

Generate Collection

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Terms

Documents

L3 and L4

8

Display Format: -

Change Format

[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20020137634 A1

L10: Entry 1 of 1

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137634

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137634 A1

TITLE: Herbicidal Compositions

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Krause, Hans-Peter	Hofheim		DE	
Kocur, Jean	Hofheim		DE	
de Una, Julio Martinez	Liederbach		DE	
Bickers, Udo	Wietmarcshen		DE	
Hacker, Erwin	Hochheim		DE	
Schnabel, Gerhard	Elsfeld		DE	

US-CL-CURRENT: [504/269](#); [504/282](#), [504/294](#), [504/348](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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Terms	Documents
L6 and L2	1

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

First Hit**End of Result Set**

Generate Collection

Print

L10: Entry 1 of 1

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137634

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137634 A1

TITLE: Herbicidal Compositions

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Krause, Hans-Peter	Hofheim		DE	
Kocur, Jean	Hofheim		DE	
de Una, Julio Martinez	Liederbach		DE	
Bickers, Udo	Wietmarcshen		DE	
Hacker, Erwin	Hochheim		DE	
Schnabel, Gerhard	Elsensfeld		DE	

APPL-NO: 09/ 882395 [PALM]

DATE FILED: June 15, 2001

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
DE	10029165.1	2000DE-10029165.1	June 19, 2000

INT-CL: [07] A01 N 43/80, A01 N 43/56, A01 N 43/08, A01 N 35/00

US-CL-PUBLISHED: 504/269; 504/294, 504/282, 504/348

US-CL-CURRENT: 504/269; 504/282, 504/294, 504/348

ABSTRACT:

The present invention relates to a herbicidal composition comprising

A) one or more compounds of the formula (I) 1

where V is an unsubstituted or substituted heterocyclyl radical or a radical --
CR.sup..alpha..dbd.CR.sup..beta.R.sup..beta.1, where R.sup..alpha. and R.sup..beta.
are identical or different carbon-containing C.sub.1-C.sub.40 radicals which
together can form an unsubstituted or substituted ring, and R.sup..beta.1 is OH or
a carbon-containing C.sub.1-C.sub.40 radical, and Z is an unsubstituted or
substituted aryl radical, and

B) one or more surfactants comprising, as structural element, at least 10, alkylene
oxide units.

First Hit

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L10: Entry 1 of 1

File: PGPB

Sep 26, 2002

DOCUMENT-IDENTIFIER: US 20020137634 A1

TITLE: Herbicidal Compositions

Summary of Invention Paragraph:

[0003] It is furthermore known from various publications that herbicides from the series of the benzoylcyclohexanediones, being inhibitors of para-hydroxyphenyl-pyruvate dioxygenase, are based on the same mechanism of action as those from the series of the benzoylisoxazoles; in this context cf. J. Pesticide Sci. 21, 473-478 (1996); Weed Science 45, 601-609 (1997), Pesticide Science 50, 83-84, (1997) and Pesticide Outlook, 29-32, (December 1996). Moreover, it is known from Pesticide Science 50, 83-84, (1997) that, under certain conditions, benzoylisoxazoles can undergo rearrangements to give benzoyl-3-oxopropionitriles.

Summary of Invention Paragraph:

[0190] h) compounds of the 5,5-diphenyl-2-isoxazoline-3-carboxylic acid type, preferably ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate (isoxadifen-ethyl, C3-1);

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Search Results - Record(s) 1 through 10 of 14 returned.

☐ 1. Document ID: US 20030232725 A1

L15: Entry 1 of 14

File: PGPB

Dec 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030232725

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030232725 A1

TITLE: Combinations of herbicidal aromatic carboxylic acids and safeners

PUBLICATION-DATE: December 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Effertz, Chad	Velva	ND	US	

US-CL-CURRENT: 504/106

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 2. Document ID: US 20030224943 A1

L15: Entry 2 of 14

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030224943

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030224943 A1

TITLE: Novel tetrazole derivatives

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yanagi, Akihiko	Tochigi		JP	
Narabu, Shinichi	Ibaraki		JP	
Goto, Toshio	Tochigi		JP	
Ueno, Chieko	Tochigi		JP	
Shirakura, Shinichi	Tochigi		JP	

US-CL-CURRENT: 504/261; 548/251

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20030176284 A1

L15: Entry 3 of 14

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030176284

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030176284 A1

TITLE: Herbicide combination with acylated aminophenylsulfonylureas

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hacker, Erwin	Hochheim		DE	
Bieringer, Hermann	Eppstein		DE	
Krahmer, Hansjorg	Hofheim		DE	

US-CL-CURRENT: 504/134

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 20030087761 A1

L15: Entry 4 of 14

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087761

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087761 A1

TITLE: Synergistic active compound combinations for controlling harmful plants

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ahrens, Hartmut	Frankfurt		DE	
Dietrich, Hansjorg	Hofheim		DE	
Willms, Lothar	Hofheim		DE	
Hacker, Erwin	Hochheim		DE	
Bieringer, Hermann	Eppstein		DE	

US-CL-CURRENT: 504/133

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 5. Document ID: US 20030060367 A1

L15: Entry 5 of 14

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030060367

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030060367 A1

TITLE: Herbicide combinations comprising specific sulfonylureas

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bieringer, Hermann	Eppstein		DE	
Huff, Hans Philipp	Eppstein		DE	
Hacker, Erwin	Hochheim		DE	

US-CL-CURRENT: 504/133; 504/134, 504/136

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 6. Document ID: US 20020055435 A1

L15: Entry 6 of 14

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055435

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020055435 A1

TITLE: Herbicidal mixtures

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Baltruschat, Helmut Siegfried	Schweppenhausen		DE	
Brandt, Astrid	Mainz		DE	

US-CL-CURRENT: 504/103; 504/104, 504/105, 504/106, 504/107, 504/108, 504/109,
504/110, 504/111, 504/112

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 7. Document ID: WO 2003047346 A1, DE 10159659 A1

L15: Entry 7 of 14

File: DWPI

Jun 12, 2003

DERWENT-ACC-NO: 2003-541517

DERWENT-WEEK: 200351

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TITLE: Herbicidal composition, especially for selective weed control in crops such as cereals, containing N-sulfonyl-anilide derivative and another herbicide, e.g. bromoxynil, and/or safener, e.g. mefenpyr-diethyl

INVENTOR: ANDREE, R; DAHMEN, P ; DREWES, M W ; FEUCHT, D ; LINKER, K ; PONTZEN, R

PRIORITY-DATA: 2001DE-1059659 (December 5, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 2003047346 A1</u>	June 12, 2003	G	135	A01N043/54
<u>DE 10159659 A1</u>	June 26, 2003		000	A01N043/707

INT-CL (IPC): A01 N 43/54; A01 N 43/653; A01 N 43/707

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Draw De
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☐ 8. Document ID: DE 10129856 A1, WO 2003000058 A1

L15: Entry 8 of 14

File: DWPI

Jan 2, 2003

DERWENT-ACC-NO: 2003-383129

DERWENT-WEEK: 200337

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TITLE: Synergistic herbicidal composition, especially for selective weed control in crops such as wheat, contains bis-pyrimidinyl-oxy-benzoic acid derivative, triazolone derivative and another herbicide e.g. acetochlor

INVENTOR: DAHMEN, P; DREWES, M W ; FEUCHT, D ; FUERSCH, H ; KREMER, M ; PONTZEN, R ; WELLMANN, A

PRIORITY-DATA: 2001DE-1029856 (June 21, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 10129856 A1</u>	January 2, 2003		021	A01N043/54
<u>WO 2003000058 A1</u>	January 3, 2003	G	000	A01N043/54

INT-CL (IPC): A01 N 43/54; A01 N 43/653; A01 N 47:38; A01 N 47:36; A01 N 47:30; A01 N 43:90; A01 N 43:707; A01 N 43:653 ; A01 N 43:50; A01 N 43:40; A01 N 43/54; A01 N 41:10; A01 N 25:32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Draw De
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☐ 9. Document ID: WO 200271845 A1, DE 10112104 A1

L15: Entry 9 of 14

File: DWPI

Sep 19, 2002

DERWENT-ACC-NO: 2002-691779

DERWENT-WEEK: 200355

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TITLE: Synergistic herbicidal composition, especially for selective weed control in

crops such as rice, containing aryl ketone derivative, another herbicide, e.g. acetochlor, and optionally safener

INVENTOR: DAHMEN, P; DREWES, M ; FEUCHT, D ; GOTO, T ; LEHR, S ; MUELLER, K ;
PONTZEN, R ; SCHWARZ, H ; SHIRAKURA, S ; DREWES, M W

PRIORITY-DATA: 2001DE-1012104 (March 14, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 200271845 A1</u>	September 19, 2002	G	121	A01N043/80
<u>DE 10112104 A1</u>	September 26, 2002		000	A01N043/36

INT-CL (IPC): A01 N 43/34; A01 N 43/36; A01 N 43/48; A01 N 43/50; A01 N 43/54; A01 N 43/64; A01 N 43/653; A01 N 43/713; A01 N 43/72; A01 N 43/74; A01 N 43/80; A01 N 43/84; A01 N 43/86; A01 N 43/88; A01 N 61:00; A01 N 61:00; A01 N 61:00; A01 N 61:00; A01 N 61:00; A01 N 43/80; A01 N 43/713; A01 N 43/653; A01 N 43/54; A01 N 43/50

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Keywords	Drawings
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☐ 10. Document ID: CN 1407854 A, DE 19958381 A1, WO 200139597 A2, AU 200126691 A, BR 200016120 A, KR 2002059758 A, EP 1278413 A2, JP 2003517473 W

L15: Entry 10 of 14

File: DWPI

Apr 2, 2003

DERWENT-ACC-NO: 2001-433869

DERWENT-WEEK: 200345

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TITLE: Synergistic herbicidal composition useful for selective weed control in crops, e.g. barley or maize, containing N-phenyl-uracil derivative, another herbicide, e.g. acetochlor, and optionally safener

INVENTOR: ANDREE, R; DAHMEN, P ; DREWES, M W ; FEUCHT, D ; KRAUSKOPF, B ; KREMER, M ; PONTZEN, R ; WETCHOLOWSKY, I ; DREWES, M

PRIORITY-DATA: 1999DE-1058381 (December 3, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>CN 1407854 A</u>	April 2, 2003		000	A01N043/54
<u>DE 19958381 A1</u>	June 7, 2001		038	A01N043/54
<u>WO 200139597 A2</u>	June 7, 2001	G	000	A01N043/54
<u>AU 200126691 A</u>	June 12, 2001		000	A01N043/54
<u>BR 200016120 A</u>	August 27, 2002		000	A01N043/54
<u>KR 2002059758 A</u>	July 13, 2002		000	A01N043/54
<u>EP 1278413 A2</u>	January 29, 2003	G	000	A01N043/54
<u>JP 2003517473 W</u>	May 27, 2003		159	A01N043/54

INT-CL (IPC): A01 N 25/32; A01 N 33/18; A01 N 33/20; A01 N 33:18; A01 N 37/20; A01 N 37/22; A01 N 39/04; A01 N 41/10; A01 N 43/00; A01 N 43/42; A01 N 43/50; A01 N 43/54; A01 N 43/56; A01 N 43/64; A01 N 43/653; A01 N 43/70; A01 N 43/707; A01 N

43/76; A01 N 43/78; A01 N 43/80; A01 N 43/824; A01 N 43/84; A01 N 47/34; A01 N 47/36; A01 N 47/38; A01 N 57/20; A01 N 57/30; A01 N 37:22; A01 N 39:04; A01 N 43/54; A01 N 43:50; A01 N 43:653; A01 N 43:70; A01 N 43:707; A01 N 43:80; A01 N 43:824; A01 N 47:36; A01 N 47:38; A01 N 57:20; A01 N 57:20; A01 N 47:38; A01 N 47:36; A01 N 43:824; A01 N 43:80; A01 N 43:707; A01 N 43:70; A01 N 43:653; A01 N 43:50 ; A01 N 43/54; A01 N 39:04; A01 N 37:22; A01 N 33:18

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 11. Document ID: HU 200301968 A2, DE 19960778 A1, WO 200135740 A2, AU 200110287 A, BR 200015668 A, CZ 200201693 A3, ZA 200202889 A, EP 1351571 A2

L15: Entry 11 of 14

File: DWPI

Sep 29, 2003

DERWENT-ACC-NO: 2001-458241

DERWENT-WEEK: 200369

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TITLE: Synergistic herbicidal composition useful for selective weed control in crops, especially cereals, comprises pyridine derivative, another herbicide, e.g. flufenacet, and optionally safener and/or further herbicide

INVENTOR: DAHMEN, P; FEUCHT, D ; KRAUSKOPF, B ; KREMER, M ; WELLMANN, A ; WELLMANN, A

PRIORITY-DATA: 1999DE-1055128 (November 17, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
HU 200301968 A2	September 29, 2003		000	A01N043/40
DE 19960778 A1	May 23, 2001		014	A01N043/40
WO 200135740 A2	May 25, 2001	G	000	A01N043/40
AU 200110287 A	May 30, 2001		000	A01N043/40
BR 200015668 A	July 23, 2002		000	A01N043/40
CZ 200201693 A3	August 14, 2002		000	A01N043/40
ZA 200202889 A	June 25, 2003		067	A01N000/00
EP 1351571 A2	October 15, 2003	G	000	A01N043/40

INT-CL (IPC): A01 N 0/00; A01 N 25/32; A01 N 37/22; A01 N 37:22; A01 N 43/40; A01 N 43/56; A01 N 43/653; A01 N 43/707; A01 N 43/713; A01 N 43/78; A01 N 43/824; A01 N 47/00; A01 N 47/36; A01 N 47/38; A01 N 43/40; A01 N 43:56; A01 N 43:707; A01 N 43:713; A01 N 43:78; A01 N 43:824; A01 N 47:36; A01 N 47:38; A01 N 43/56; A01 N 43:56; A01 N 43:707; A01 N 43:713; A01 N 43:78; A01 N 43:824; A01 N 47:36; A01 N 47:38; A01 N 37:22; A01 N 37:22; A01 N 43/40; A01 N 43/56; A01 N 43:56; A01 N 43:56; A01 N 43:707; A01 N 43:707; A01 N 43:713; A01 N 43:713; A01 N 43:78; A01 N 43:78; A01 N 43:824; A01 N 43:824; A01 N 47:36; A01 N 47:36; A01 N 47:38; A01 N 47:38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KIMC	Drawings
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☐ 12. Document ID: MX 2002004904 A1, DE 19960918 A1, WO 200135741 A2, AU

200110294 A, BR 200015701 A, EP 1233672 A2, CZ 200201728 A3, CN 1391439 A, HU
200203400 A2, ZA 200202759 A

L15: Entry 12 of 14

File: DWPI

Jan 1, 2003

DERWENT-ACC-NO: 2001-443205

DERWENT-WEEK: 200373

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TITLE: Synergistic herbicidal composition useful for selective weed control in crops, especially cereals, containing tritosulfuron, and other specific herbicides, e.g. flufenacet, and optionally safener and/or further herbicide

INVENTOR: DAHMEN, P; FEUCHT, D ; KRAUSKOPF, B ; KREMER, M ; WELLMANN, A

PRIORITY-DATA: 1999DE-1055407 (November 18, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>MX 2002004904 A1</u>	January 1, 2003		000	A01N047/36
<u>DE 19960918 A1</u>	May 23, 2001		012	A01N047/36
<u>WO 200135741 A2</u>	May 25, 2001	G	000	A01N047/36
<u>AU 200110294 A</u>	May 30, 2001		000	A01N047/36
<u>BR 200015701 A</u>	July 23, 2002		000	A01N047/36
<u>EP 1233672 A2</u>	August 28, 2002	G	000	A01N047/36
<u>CZ 200201728 A3</u>	October 16, 2002		000	A01N047/36
<u>CN 1391439 A</u>	January 15, 2003		000	A01N047/36
<u>HU 200203400 A2</u>	March 28, 2003		000	A01N047/36
<u>ZA 200202759 A</u>	June 25, 2003		059	A01N000/00

INT-CL (IPC): A01 N 0/00; A01 N 39/00; A01 N 43/00; A01 N 47/36

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 13. Document ID: DE 19947918 A1, EP 1221844 A2, WO 200124633 A2, AU 200077812
A

L15: Entry 13 of 14

File: DWPI

Apr 12, 2001

DERWENT-ACC-NO: 2001-357085

DERWENT-WEEK: 200254

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TITLE: Synergistic herbicidal composition useful for selective weed control in crops, especially cereals, containing bis-pyrimidinyloxy-benzoic acid derivative, another herbicide, e.g. acetochlor, and optionally safener

INVENTOR: FEUCHT, D; FUERSCH, H ; KREMER, M ; WELLMANN, A

PRIORITY-DATA: 1999DE-1047918 (October 6, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 19947918 A1</u>	April 12, 2001		016	A01N043/54

<u>EP 1221844 A2</u>	July 17, 2002	G	000	A01N043/00
<u>WO 200124633 A2</u>	April 12, 2001	G	000	A01N043/00
<u>AU 200077812 A</u>	May 10, 2001		000	A01N043/00

INT-CL (IPC): A01 N 43/00; A01 N 43/54

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 14. Document ID: MX 2002003260 A1, DE 19962017 A1, WO 200122819 A1, AU 200075198 A, BR 200014670 A, CZ 200201141 A3, EP 1221848 A1, KR 2002035601 A, HU 200202780 A2, CN 1378424 A, JP 2003510258 W

L15: Entry 14 of 14

File: DWPI

Dec 1, 2002

DERWENT-ACC-NO: 2001-382758

DERWENT-WEEK: 200377

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TITLE: Synergistic herbicidal agents containing N-aryl-triazolinone and N-aryl-triazolinethione derivatives, useful for selective weed control in crops

INVENTOR: DAHMEN, P; DREWES, M W ; FEUCHT, D ; HAAS, W ; KRAUSKOPF, B ; KREMER, M ; PONTZEN, R ; WELLMANN, A ; DREWES, M

PRIORITY-DATA: 1999DE-1046855 (September 30, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>MX 2002003260 A1</u>	December 1, 2002		000	A01N025/32
<u>DE 19962017 A1</u>	April 5, 2001		014	A01N043/653
<u>WO 200122819 A1</u>	April 5, 2001	G	000	A01N043/653
<u>AU 200075198 A</u>	April 30, 2001		000	A01N043/653
<u>BR 200014670 A</u>	June 18, 2002		000	A01N043/653
<u>CZ 200201141 A3</u>	June 12, 2002		000	A01N043/653
<u>EP 1221848 A1</u>	July 17, 2002	G	000	A01N043/653
<u>KR 2002035601 A</u>	May 11, 2002		000	A01N043/653
<u>HU 200202780 A2</u>	December 28, 2002		000	A01N043/653
<u>CN 1378424 A</u>	November 6, 2002		000	A01N043/653
<u>JP 2003510258 W</u>	March 18, 2003		068	A01N043/653

INT-CL (IPC): A01 N 25/32; A01 N 37/20; A01 N 43/653; A01 N 49/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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L14: Entry 15 of 31

File: USPT

Nov 12, 2002

DOCUMENT-IDENTIFIER: US 6479432 B1

**** See image for Certificate of Correction ****

TITLE: Non-aqueous or low-water suspension concentrates of mixtures of active compounds for crop protection

Brief Summary Text (39):

Preferred components b) in the formulations are also safeners which are advantageous and generally matched, in a manner known to the person skilled in the art, to individual or more than one of the active compounds contained in the formulation. In general, the following active compounds are suitable for use as safeners: (a) Compounds of the type of the dichlorophenylpyrazoline-3-carboxylic acid, preferably compounds such as ethyl 1-(2,4-dichlorophenyl)-5-(ethoxycarbonyl)-5-methyl-2-pyrazoline-3-carboxylate (S1-1) ("mefenpyr-diethyl", PM, pp. 781-782), and related compounds, as described in WO 91/07874. (b) Derivatives of dichlorophenylpyrazole carboxylic acid, preferably compounds such as ethyl 1-(2,4-dichlorophenyl)-5-methylpyrazole-3-carboxylate (S1-2), ethyl 1-(2,4-dichlorophenyl)-5-isopropylpyrazole-3-carboxylate (S1-3), ethyl 1-(2,4-dichlorophenyl)-5-(1,1-dimethylethyl)pyrazole-3-carboxylate (S1-4), ethyl 1-(2,4-dichlorophenyl)-5-phenylpyrazole-3-carboxylate (S1-5) and related compounds as described in EP-A-333 131 and EP-A-269 806. (c) Compounds of the type of the triazolecarboxylic acids, preferably compounds such as fenchlorazole(ethyl ester), that is to say ethyl 1-(2,4-dichlorophenyl)-5-trichloromethyl-(1H)-1,2,4-triazole-3-carboxylate (S1-6) and related compounds EP-A-174 562 and EP-A-346 620. (d) Compounds of the type of the 5-benzyl- or 5-phenyl-2-isoxazoline-3-carboxylic acid, or the 5,5-diphenyl-2-isoxazoline-3-carboxylic acid, preferably compounds such as ethyl 5-(2,4-dichlorobenzyl)-2-isoxazoline-3-carboxylate (S1-7) or ethyl 5-phenyl-2-isoxazoline-3-carboxylate (S1-8) and related compounds, as described in WO 91/08202, or ethyl 5,5-diphenyl-2-isoxazolinecarboxylate (S1-9) ("isoxadifen-ethyl") or its -n-propyl ester (S1-10) or ethyl 5-(4-fluorophenyl)-5-phenyl-2-isoxazoline-3-carboxylate (S1-11), as described in the German patent application (WO-A-95/07897). (e) Compounds of the type of the 8-quinolineoxyacetic acid (S2), preferably 1-methylhex-1-yl (5-chloro-8-quinolineoxy) acetate (common name "cloquintocet-mexyl" (S2-1) (see PM, pp. 263-264) 1,3-dimethylbut-1-yl (5-chloro-8-quinolineoxy)acetate (S2-2), 4-allyloxybutyl (5-chloro-8-quinolineoxy)acetate (S2-3), 1-allyloxyprop-2-yl (5-chloro-8-quinolineoxy)acetate (S2-4), ethyl (5-chloro-8-quinolineoxy)acetate (S2-5), methyl (5-chloro-8-quinolineoxy)acetate (S2-6), allyl (5-chloro-8-quinolineoxy)acetate (S2-7), 2-(2-propylideneiminoxy)-1-ethyl (5-chloro-8-quinolineoxy)acetate (S2-8), 2-oxoprop-1-yl (5-chloro-8-quinolineoxy)acetate (S2-9) and related compounds, as described in EP-A-86 750, EP-A-94 349 and EP-A-191 736 or EP-A-0 492 366. (f) Compounds of the type of the (5-chloro-8-quinolineoxy)malonic acid, preferably compounds such as diethyl (5-chloro-8-quinolineoxy)malonate, diallyl (5-chloro-8-quinolineoxy)malonate, methyl ethyl (5-chloro-8-quinolineoxy)malonate and related compounds, as described in EP-A-0 582 198. (g) Active compounds of the type of the phenoxyacetic or -propionic acid derivatives or the aromatic carboxylic acids, such as, for example, 2,4-dichlorophenoxyacetic acid (esters) (2,4-D), 4-chloro-2-methylphenoxypropionic esters (mecoprop), MCPA or 3,6-dichloro-2-methoxybenzoic acid (esters) (dicamba). (h) Active compounds of the type of the pyrimidines, which are used as soil-acting safeners in rice, such as, for example, "fencloirim" (PM, pp. 511-512) (=4,6-dichloro-2-phenylpyrimidine), which is known as safener for pretilachlor in sown

rice. (i) Active compounds of the type of the dichloroacetamides, which are frequently used as pre-emergent safeners (soil-acting safeners), such as, for example, "dichlormid" (PM, pp. 363-364) (=N,N-diallyl-2,2-dichloroacetamide), "R-29148" (=3-dichloroacetyl-2,2,5-trimethyl-1,3-oxazolidine from Stauffer), "benoxacor" (PM, pp. 102-103) (=4-dichloroacetyl-3,4-dihydro-3-methyl-2H-1,4-benzoxazine), "PPG-1292" (=N-allyl-N-[(1,3-dioxolan-2-yl)methyl]dichloroacetamide from PPG Industries), "DK-24" (=N-allyl-N-[(allylaminocarbonyl)methyl]dichloroacetamide from Sagro-Chem), "AD-67" or "MON 4660" (=3-dichloroacetyl-1-oxa-3-aza-spiro[4,5]decane from Nitrokemia or Monsanto), "diclonon" or "BAS145138" or "LAB145138" (=3-dichloroacetyl-2,5,5-trimethyl-1,3-diazabicyclo[4.3.0]nonane from BASF) and "furalazol" or "MON 13900" (see PM, 637-638) (=RS)-3-dichloroacetyl-5-(2-furyl)-2,2-dimethyloxazolidine). (k) Active compounds of the type of the dichloroacetone derivatives, such as, for example, "MG 191" (CAS-Reg. No. 96420-72-3) (=2-dichloromethyl-2-methyl-1,3-dioxolane from Nitrokemia), which is known as safener for maize. (l) Active compounds of the type of the oxyimino compounds, which are known as seed dressings, such as, for example, "oxabetrinil" (PM, pp. 902-903) (=Z)-1,3-dioxolan-2-ylmethoxyimino(phenyl)acetonitrile, which is known as seed dressing safener for millet against metolachlor damage. "fluxofenim" (PM, pp. 613-614) (=1-(4-chlorophenyl)-2,2,2-trifluoro-1-ethanone O-(1,3-dioxolan-2-ylmethyl) oxime), which is known as seed dressing safener for millet against metolachlor damage, and "cyometrinil" or "-CGA43089" (PM, p. 1304) (=Z)-Cyanomethoxyimino(phenyl)acetonitrile, which is known as seed dressing safener for millet against metolachlor damage. (m) Active compounds of the type of the thiazolecarboxylic esters, which are known as seed dressings, such as, for example, "flurazol" (PM, pp. 590-591) (=benzyl 2-chloro-4-trifluoromethyl-1,3-thiazole-5-carboxylate), which is known as seed dressing safener for millet against alachlor and metolachlor damage. (n) Active compounds of the type of the naphthalenedicarboxylic acid derivatives, which are known as seed dressings, such as, for example, "naphthalic anhydride" (PM, p.1342) (=1,8-naphthalenedicarboxylic anhydride), which is known as seed dressing safener for maize against thiocarbamate herbicide damage. (o) Active compounds of the type of the chromaneacetic acid derivatives, such as, for example, "CL 304415" (CAS-Reg. No. 31541-57-8) (=2-(4-carboxychroman-4-yl)acetic acid from American Cyanamid), which is known as safener for maize against imidazolinone damage. (p) Active compounds which, in addition to a herbicidal action against harmful plants, also have safener action in crop plants such as rice, such as, for example, "dimepiperate" or "MY-93" (PM, pp.404-405) (=S-1-methyl-1-phenylethyl piperidine-1-thiocarboxylate), which is known as safener for rice against damage by the herbicide molinate, "daimuron" or "SK 23" (PM, p. 330) (=1-(1-methyl-1-phenylethyl)-3-p-tolylurea), which is known as safener for rice against damage by the herbicide imazosulfuron, "cumyluron"="JC-940" (=3-(2-chlorophenylmethyl-1-(1-methyl-1-phenylethyl)urea, see JP-A-60087254), which is known as safener for rice against damage by some herbicides, "methoxyphenon" or "NK 049" (=3,3'-dimethyl-4-methoxy-benzophenone), which is known as safener for rice against damage by some herbicides, "CSB" (=1-bromo-4-(chloromethylsulfonyl)benzene) (CAS-Reg. No. 54091-064 from Kumiai), which is known as safener against damage by some herbicides in rice. (q) N-Acylsulfonamides of the formula (S3) and salts thereof ##STR2## as described in WO-A-97/45016. (r) Acylsulfamoylbenzamides of the formula (S4), if appropriate also in salt form, ##STR3## as described in the International Application No. PCT/EP98/06097, and (s) Compounds of the formula (S5), ##STR4##

Brief Summary Text (41):

Of particular interest among the safeners mentioned are mefenpyr-diethyl (S1-1), isoxadifen-ethyl (S1-9) and cloquintocet-mexyl (S2-1), in particular (S1-1) or (S1-9) in formulations with a sulfonylurea as herbicidally active compound, even as only active compound, or in particular also (S1-1) or (S1-9) in formulations comprising a sulfonylurea and, as further herbicidally active compound, fenoxaprop-ethyl or fenoxaprop-P-ethyl, and in particular also (S2-1) in formulations comprising a sulfonylurea and, as further herbicidally active compound, clodinafop-propargyl.

Brief Summary Text (75):

Abbreviations for Tables 1 and 2: iodosulfuron=3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-1-(2-carboxy-5-iodophenyl)sulfonylurea iodosulfuron-methyl-sodium=3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-1-(2-methoxycarbonyl-5-iodophenyl)sulfonylurea, sodium salt, fenoxaprop-P-ethyl=ethyl (R)-2-[4-(6-chlorobenzoxazol-2-yloxy)phenoxy]propionate, sulfonylurea A1=N,N-dimethyl-2-[3-(4,6-dimethoxypyrimidin-2-yl)ureidosulfonyl]4-formylaminobenzamide, sulfonylurea A2=methyl 2-[3-(4,6-dimethoxypyrimidin-2-yl)ureidosulfonyl]4-methylsulfonylamidomethylbenzoate, mefenpyr-diethyl=ethyl 1-(2,4-dichlorophenyl)-5-(ethoxycarbonyl)-5-methyl-2-pyrazoline-3-carboxylate, isoxadifen-ethyl=ethyl 5,5-diphenyl-2-isoxazolinecarboxylate, .RTM.Solvesso 150=mineral oil with aromatic fractions; boiling range 187-207.degree. C., .RTM.Solvesso 200=mineral oil with aromatic fractions; boiling range 219-282.degree. C., rapeseed oil fatty acid methyl ester=rapeseed oil derivative, .RTM.Genapol X-060=ethoxylated isotridecyl alcohol having 6 EO (Clariant) .RTM.Genapol X-060 methylether=Genapol X-060 which is terminally etherified with methyl, .RTM.Genapol X-150=ethoxylated isotridecyl alcohol having 15 EO (Clariant), .RTM.Genapol O-050=ethoxylated unsaturated (C.sub.16 -C.sub.18)-fatty alcohol (mainly oleyl alcohol) having 5 EO (Clariant), .RTM.Pluronic L 121, corresponds to .RTM.Synperonic L 121=block copolymer of ethylene oxide and propylene oxide, .RTM.Soprophor S/40-P=ethoxylated tristyrilphenol having 40 EO, .RTM.Soprophor BSU=ethoxylated tristyrilphenol having 16 EO, .RTM.Atplus 309 F=ethoxylated sorbitan ester, .RTM.Emulsogen EL 400=ethoxylated fatty acid, .RTM.Emcol P 18.60=calcium dodecylbenzenesulfonate, .RTM.Bentone 27=organically modified hectorite (mineral thickener), .RTM.Bentone 38=organically modified hectorite (mineral thickener), .RTM.Thixatrol ST=thixotropic agent based on an organic castor oil derivative.

Brief Summary Paragraph Table (2):

TABLE 2 Examples of suspension concentrates Example No. 2/1 2/2 2/3 2/4 2/5 2/6
 sulfonylurea A1 2.3 2.3 4.7 4.7 isoxadifen-ethyl 2.3 2.3 4.7 4.7 sulfonylurea A2
 2.9 2.9 mefenpyr-diethyl 8.7 8.7 Solvesso 200 33.3 33.3 28.4 33.8 69.9 70.4
 rapeseed oil fatty acid 44.1 44.1 35.4 38.8 methyl ester Genapol X-060 12.0 20.8
 12.0 12.0 Genapol X-150 12.0 Emcol P 18.60 4.0 4.0 4.0 4.0 4.0 4.0 Bentone 38 2.0
 2.0 2.0 2.0 2.5 2.0 Atplus 309 F 12.0

CLAIMS:

15. The preparation according to claim 14 wherein the one or more non-sulfonylurea compounds is clodinefop-propargyl, phenoxaprop-P-ethyl, mefenpyr-diethyl, isoxadifen-ethyl, or cloquintocet-mexyl, the solvent is a mineral oil with aromatic fractions or rapeseed oil fatty acid (C.sub.1 -C.sub.4)-alkyl esters, the non-ionic surfactant is an ethoxylated fatty alcohol or ester thereof having a degree of ethoxylation of from 1 to 100 EO or block copolymers of EO and PO, the ionic surfactant is a partial phosphoric ester or sulfuric ester of ethoxylated di- and tristyrilphenols, the thickener is a magnesium phyllosilicate or a thixotropic agent based upon an organic castor oil derivative.

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☐ 1. Document ID: US 20040002424 A1

L17: Entry 1 of 14

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002424

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002424 A1

TITLE: 2-Amino-4-bicyclylamino-6H-1,3,5-triazines, processes for their preparation and their use as herbicides and plant growth regulators

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Minn, Klemens	Hattersheim		DE	
Ahrens, Hartmut	Frankfut		DE	
Dietrich, Hansjorg	Hofheim		DE	
Willms, Lothar	Hofheim		DE	
Auler, Thomas	Bad Soden		DE	
Bieringer, Hermann	Eppstein		DE	
Menne, Hubert	Hofheim		DE	

US-CL-CURRENT: [504/221](#); [504/225](#), [504/230](#), [544/113](#), [544/209](#), [544/60](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw Da
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☐ 2. Document ID: US 20030224942 A1

L17: Entry 2 of 14

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030224942

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030224942 A1

TITLE: Alkylamino-1,3,5-triazines, processes for their preparation and their use as herbicides and plant growth regulators

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ahrens, Hartmut	Frankfurt		DE	
Dietrich, Hansjorg	Hofheim		DE	
Willms, Lothar	Hofheim		DE	
Menne, Hubert	Hofheim		DE	
Bieringer, Hermann	Eppstein		DE	
Auler, Thomas	Bad Soden		DE	

US-CL-CURRENT: [504/232](#); [544/208](#), [544/209](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20030204083 A1

L17: Entry 3 of 14

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204083
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030204083 A1

TITLE: Substituted 2-amino-1,3,5-triazines, their preparation, and their use as herbicides and plant growth regulators

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Giencke, Wolfgang	Hofheim		DE	
Willms, Lothar	Hofheim		DE	
Auler, Thomas	Bad Soden		DE	
Bieringer, Hermann	Eppstein		DE	
Menne, Hubert	Hofheim		DE	

US-CL-CURRENT: [544/211](#); [544/212](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 20030171218 A1

L17: Entry 4 of 14

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030171218
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030171218 A1

TITLE: Substituted 3-heteroaryl(amino- or oxy)pyrrolidin-2-ones, their preparation and use as herbicides or plant growth regulators

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bojack, Guido	Wiesbaden		DE	
Willms, Lothar	Hofheim		DE	
Angermann, Alfred	Kriftel/Ts.		DE	
Bieringer, Hermann	Eppstein		DE	
Menne, Hubert	Hofheim		DE	
Auler, Thomas	Bad Soden		DE	

US-CL-CURRENT: 504/221; 504/224, 504/248, 504/266, 504/270, 504/275, 544/137,
544/139, 544/369, 544/370, 544/60, 546/269.1, 546/271.4, 546/272.7, 548/182,
548/225, 548/316.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 5. Document ID: US 20030130124 A1

L17: Entry 5 of 14

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030130124
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030130124 A1

TITLE: Uracil compounds and use thereof

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tohyama, Yoshitomo	Ashiya-shi		JP	
Sanemitsu, Yuzuru	Kobe-shi		JP	
Gotou, Tomohiko	Osaka		JP	

US-CL-CURRENT: 504/243; 544/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 6. Document ID: US 20020115567 A1

L17: Entry 6 of 14

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115567
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020115567 A1

TITLE: Substituted 2-amino-1,3,5-triazines, their preparation, and their use as herbicides and plant growth regulators

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Giencke, Wolfgang	Hofheim		DE	
Willms, Lothar	Hofheim		DE	
Auler, Thomas	Bad Soden		DE	
Bieringer, Hermann	Eppstein		DE	
Menne, Hubert	Hofheim		DE	

US-CL-CURRENT: 504/231; 544/194

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 20020013466 A1

L17: Entry 7 of 14

File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020013466

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020013466 A1

TITLE: Uracil compounds and use thereof

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tohyama, Yoshitomo	Ashiya-shi		JP	
Sanemitsu, Yuzuru	Kobe-shi		JP	
Gotou, Tomohiko	Osaka		JP	

US-CL-CURRENT: 544/311

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 20010011063 A1

L17: Entry 8 of 14

File: PGPB

Aug 2, 2001

PGPUB-DOCUMENT-NUMBER: 20010011063

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010011063 A1

TITLE: Substituted 2,4-diamino-1,3,5-triazines, processes for their preparation and their use as herbicides and plant growth regulators

PUBLICATION-DATE: August 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Giencke, Wolfgang	Hofheim		DE	

Willms, Lothar	Hofheim	DE
Auler, Thomas	Bad Soden	DE
Bieringer, Hermann	Eppstein	DE
Rosinger, Christopher	Hofheim	DE

US-CL-CURRENT: 504/231; 544/212

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 9. Document ID: US 6667413 B2

L17: Entry 9 of 14

File: USPT

Dec 23, 2003

US-PAT-NO: 6667413

DOCUMENT-IDENTIFIER: US 6667413 B2

TITLE: Uracil compounds and use thereof

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tohyama; Yoshitomo	Ashiya			JP
Sanemitsu; Yuzuru	Kobe			JP
Gotou; Tomohiko	Minoo			JP

US-CL-CURRENT: 560/9; 560/17, 560/21, 560/29, 560/30, 560/358, 560/43, 560/45,
560/47, 560/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 10. Document ID: US 6664214 B1

L17: Entry 10 of 14

File: USPT

Dec 16, 2003

US-PAT-NO: 6664214

DOCUMENT-IDENTIFIER: US 6664214 B1

TITLE: Uracil compounds and use thereof

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shuto; Akira	Kobe			JP

US-CL-CURRENT: 504/243; 544/312, 544/314

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 11. Document ID: US 6537948 B1

L17: Entry 11 of 14

File: USPT

Mar 25, 2003

US-PAT-NO: 6537948

DOCUMENT-IDENTIFIER: US 6537948 B1

TITLE: Uracil compounds and use thereof

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tohyama; Yoshitomo	Ashiya			JP
Sanemitsu; Yuzuru	Kobe			JP

US-CL-CURRENT: 504/243; 544/295, 544/296, 544/312, 544/314, 546/243, 548/134,
548/135, 548/356.1, 548/366.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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☐ 12. Document ID: US 6451740 B2

L17: Entry 12 of 14

File: USPT

Sep 17, 2002

US-PAT-NO: 6451740

DOCUMENT-IDENTIFIER: US 6451740 B2

**** See image for Certificate of Correction ****

TITLE: Uracil compounds and use thereof

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tohyama; Yoshitomo	Ashiya			JP
Sanemitsu; Yuzuru	Kobe			JP
Gotou; Tomohiko	Minoo			JP

US-CL-CURRENT: 504/243; 544/312, 544/314

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw De
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☐ 13. Document ID: US 6410484 B1

L17: Entry 13 of 14

File: USPT

Jun 25, 2002

US-PAT-NO: 6410484

DOCUMENT-IDENTIFIER: US 6410484 B1

TITLE: 6-Hydroxy-5,6-dihydrouracil compound and herbicidal composition containing thereof

DATE-ISSUED: June 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takano; Minoru	Kameoka			JP
Mishima; Hirofumi	Minoo			JP

US-CL-CURRENT: 504/221; 504/225, 504/243, 544/105, 544/295, 544/309, 544/310, 544/312, 544/314, 544/52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw De
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☐ 14. Document ID: US 6403534 B1

L17: Entry 14 of 14

File: USPT

Jun 11, 2002

US-PAT-NO: 6403534

DOCUMENT-IDENTIFIER: US 6403534 B1

TITLE: Uracil compounds and use thereof

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Komori; Takashi	Toyonaka			JP
Sanemitsu; Yuzuru	Kobe			JP

US-CL-CURRENT: 504/243; 544/312, 544/314

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw De
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☐ 1. Document ID: US 20030232725 A1

L23: Entry 1 of 3

File: PGPB

Dec 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030232725

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030232725 A1

TITLE: Combinations of herbicidal aromatic carboxylic acids and safeners

PUBLICATION-DATE: December 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Effertz, Chad	Velva	ND	US	

US-CL-CURRENT: 504/106

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20020055435 A1

L23: Entry 2 of 3

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055435

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020055435 A1

TITLE: Herbicidal mixtures

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Baltruschat, Helmut Siegfried	Schweppenhausen		DE	
Brandt, Astrid	Mainz		DE	

US-CL-CURRENT: 504/103, 504/104, 504/105, 504/106, 504/107, 504/108, 504/109,
504/110, 504/111, 504/112

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☒ 3. Document ID: US 6413907 B2

L23: Entry 3 of 3

File: USPT

Jul 2, 2002

US-PAT-NO: 6413907

DOCUMENT-IDENTIFIER: US 6413907 B2

TITLE: Herbicidal composition

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ruegg; Willy	Gipf-Oberfrick			CH

US-CL-CURRENT: 504/105; 504/106, 504/107, 504/108, 504/133, 504/136, 504/137

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
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L23: Entry 3 of 3

File: USPT

Jul 2, 2002

DOCUMENT-IDENTIFIER: US 6413907 B2

TITLE: Herbicidal composition

Abstract Text (2):

wherein either A.sub.1 is nitro and A.sub.2 is hydrogen or A.sub.1 is methyl and A.sub.2 is methoxy, and their salts, and b) a synergistically effective amount of one or more compounds selected from the compound of formula (2.1) to (2.33). The compositions according to the invention may also contain a safener.

Brief Summary Text (61):

The compounds of formulae 2.1 and 2.3 to 2.13 are known under the names imazamox, imazethapyr, imazaquin, imazapyr, dimethenamid, atrazine, terbutylazin, simazine, terbutyrn, prohexadione calcium, sethoxydim, clethodim, tepraloxym, flumetsulam, metosulam, pyridate, bromoxynil, ioxynil, sulcotrione, carfentrazone, sulfentrazone, isoxaflutole, glufosinate, primisulfuron, prosulfuron, rimsulfuron, halosulfuron, nicosulfuron, and thifensulfuron and are described in the Pesticide Manual, eleventh ed., British Crop Protection Council, 1997 under the entry numbers 412, 415, 414, 413, 240, 34, 692, 651, 693, 595, 648, 146, 49, 339, 495, 626, 88, 425, 664, 112, 665, 436, 382, 589, 613, 644, 389, 519 and 704 The compound of formula 2.13, wherein Y.sub.1, Y.sub.3 and Y.sub.4 are methine, Y.sub.2 is C--I, R.sub.24 is COOMe, Y.sub.5 is nitrogen and Y.sub.6 is methyl, is known under the name iodosulfuron (especially the sodium salt) from AGROW No. 296, Jan. 16.sup.th 1998, page 22. The S-enantiomer of the compound of formula 2.12 is registered under CAS reg. no. [35597-44-5]. The compound of formula 2.2, aRS,1'S(-)N-(1'-methyl-2'-methoxyethyl)-N-chloroacetyl-2-ethyl-6-methylani line, as well as a compound of the general formula 2.3, (1S,aRS)-2-chloro-N-(2,4-dimethyl-3-thienyl)-N-(2-methoxy-1-methylethyl)-a cetamide, are described for example in WO 97/34485. The compound of formula 2.9, wherein R.sub.19 is NO.sub.2, is known under the name mesotrione and is described for example in U.S. Pat. No. 5,006,158. The compound of formula 2.6, wherein R.sub.12 is ethoxy, R.sub.13 is fluorine, Y is methine, R.sub.14 is methoxycarbonyl, R.sub.15 is hydrogen and R.sub.16 is chlorine, is known under the name cloransulam, for example from AGROW no. 261, Aug. 2.sup.nd 1996, page 21.

Detailed Description Text (25):

It has surprisingly been found that special safeners are suitable for mixing with the synergistic composition according to the invention. The present invention therefore also relates to a selective herbicidal composition to control grasses and weeds in crops of cultivated plants, especially maize, which contains a compound of formula I, one or more compounds selected from the compounds of formulae 2.1 to 2.33 and a safener (antidote) and to protect the cultivated plants, :but not the weeds, from the phytotoxic action of the herbicide, and to the use of said composition for controlling weeds in crops of cultivated plants.

Detailed Description Text (28):

b) to antagonise the herbicide, an antidotally effective amount of a safener selected from the compound of formula 3.1 ##STR40##

Detailed Description Text (40):

(2. 2,aRS,1'S(-)N-(1'-methyl-2'-methoxyethyl)-N-chloroacetyl-2-ethyl-6-methylaniline), as well as a compound selected from formula 2.4, wherein R.sub.7 is chlorine, R.sub.8 is ethyl and R.sub.9 is isopropyl, or R.sub.7 is chlorine, R.sub.8 is ethyl and R.sub.9 is tert.-butyl, and of formula 2.6, wherein R.sub.12 is hydrogen, Z is methine, R.sub.13 is methyl, Y is nitrogen, R.sub.14 is fluorine, R.sub.15 is hydrogen and R.sub.16 is fluorine, or R.sub.12 is methoxy, Z is methine, R.sub.13 is methoxy, Y is methine, R.sub.14 is chlorine, R.sub.15 is methyl and R.sub.16 is chlorine, and of formula 2.7, wherein R.sub.17 is --C(O)--S-n-octyl, and of formula 2.13, wherein Y.sub.1 is nitrogen, Y.sub.2, Y.sub.3 and Y.sub.4 are methine, R.sub.24 is dimethylaminocarbonyl and Y.sub.5 is methine, or Y.sub.1, Y.sub.2, Y3 and Y.sub.4 are methine, R.sub.24 is methoxycarbonyl and Y.sub.5 is methine, or Y.sub.1, Y.sub.2, Y.sub.3 and Y.sub.4 are methine, R.sub.24 is 3-trifluoropropyl and Y.sub.5 is nitrogen, or Y.sub.1 is nitrogen, Y.sub.2, Y.sub.3 and Y.sub.4 are methine, R.sub.24 is ethylsulphonyl and Y.sub.5 is methine, or Y.sub.1 is N--Me, Y.sub.2 is nitrogen, Y.sub.3 and Y.sub.4 together are C--Cl, R.sub.24 is methoxycarbonyl and Y.sub.5 is methine, and of formula 2.9, and of formula 2.11, wherein R.sub.22 is trifluoromethyl, and of formula 2.12, and of formula 2.16, and of formula 2.18, and of formula 2.19, and b) to antagonise the herbicide, an antidotally effective amount of a safener of formula 3.1 ##STR51##

Detailed Description Text (42):

(2. 2,aRS,1'S(-)N-(1'-methyl-2'-methoxyethyl)-N-chloroacetyl-2-ethyl-6-methylaniline) and b) to antagonise the herbicide, an antidotally effective amount of a safener of formula 3.1 ##STR53##

Detailed Description Text (45):

b) to antagonise the herbicide, an antidotally effective amount of a safener selected from the compound of formula 3.1 ##STR54##

Detailed Description Text (56):

The invention additionally relates to a process for the selective control of weeds in crops of cultivated plants, which comprises treating said cultivated plants, the seeds or seedlings or the crop area thereof with a herbicidally effective amount of the herbicide of formula I, if required, one or more herbicides selected from the compounds of formulae 201 to 2.33 and, to antagonise the herbicide, an antidotally effective amount of a safener of formula 3.1 to 3.11.

Detailed Description Text (59):

Crop plants which may be protected. against the harmful action of the above-mentioned herbicides by the safeners of formulae 3.1 to 3.11 are in particular cereals, cotton, soya, sugar beet, sugar cane, plantations, rape, maize and rice, especially maize. Crops will also be understood as meaning those crops that have been made tolerant to herbicides or classes of herbicides by conventional breeding or genetic engineering methods.

Detailed Description Text (62):

Depending on the end use, a safener of formula 3.1 to 3.11 can be used for pretreating seeds of the crop plants (dressing of seeds or seedlings) or it can be incorporated in the soil before or after sowing. It can, however, also be applied by itself alone or together with the herbicide postemergence. Treatment of the plant or the seeds with the safener can therefore in principle be carried out irrespective of the time of application of the herbicide. Treatment can, however, also be carried out by simultaneous application of the herbicide and safener (e.g. as tank mixture). The concentration of safener with respect to the herbicide will depend substantially on the mode of application. Where a field treatment is carried out either by using a tank mixture with a combination of safener and herbicide or by separate application of safener and herbicide, the ratio of herbicide to safener will usually be from 100:1 to 1:10, preferably 20:1 to 1:1. In field treatment it is usual to apply 0.001 to 1.0 kg/ha, preferably 0.001 to 0.25 kg/ha, of safener.

Detailed Description Text (65):

For seed dressing, 0.001 to 10 g of safener/kg of seeds, preferably 0.05 to 2 g of safener/kg of seeds, is usually applied. If the safener is used in liquid form shortly before sowing to effect soaking, then it is preferred to use safener solutions that contain the active ingredient in a concentration of 1 to 10000 ppm, preferably of 100 to 1000 ppm.

Detailed Description Text (66):

For application, it is preferred to process the safeners of formula 3.1 to 3.11, or mixtures of these safeners with the herbicide of formula I and optionally with one or more herbicides selected from formulae 2.1 to 2.33, conveniently together with the customary assistants of formulation technology to formulations, typically to emulsifiable concentrates, coatable pastes, directly sprayable or dilutable solutions, dilute emulsions, wettable powders, soluble powders, dusts, granulates or microcapsules.

Detailed Description Text (70):

The compositions may also contain further ingredients, such as stabilisers, e.g. where appropriate epoxidised vegetable oils (epoxidised coconut oil, rapeseed oil, or soybean oil), antifoams, typically silicone oil, preservatives, viscosity regulators, binders, tackifiers, as well as fertilisers or other chemical agents. Different methods and techniques may suitably be used for applying the safeners of formula 3.1 to 3.11 or compositions containing them to protect cultivated plants from the harmful effects of herbicides of formula I and 2.1 to 2.33, for example the following:

Detailed Description Text (72):

a) Dressing the seeds with a wettable powder formulation of the active ingredient of formulae 3.1 to 3.11 by shaking in a vessel until the safener is uniformly distributed on the surface of the seeds (dry treatment). In this instance, approximately 1 to 500 g of active ingredient of formula 3.1 to 3.11 (4 g to 2 kg of wettable powder) is used per 100 kg of seeds.

Detailed Description Text (75):

In keeping with the natural environment, the preferred method of application is either seed dressing or treatment of the germinated seedlings, because the safener treatment is fully concentrated on the target crop. Usually 1 to 1000 g, preferably 5 to 250 g, of safener is used per 100 kg of seeds. However, depending on the method employed, which also permits the use of other chemical agents or micronutrients, the concentrations may deviate above or below the indicated limit values (repeat dressing).

Detailed Description Text (77):

A liquid formulation of a mixture of safener and herbicide (reciprocal ratio from 10:1 to 1:100) is used, the concentration of herbicide being from 0.005 to 5.0 kg/ha. This tank mixture is applied before or after sowing.

Detailed Description Text (103):

Formulation Examples for Mixtures of Herbicides of Formula I, Formulae 2.1 to 2.33 and Safeners of Formulae 3.1 to 3.11 (%=Percent by Weight)

Detailed Description Text (113):

The ability of the safeners of formulae 3.1 to 3.11 to protect crops from the phytotoxic action of herbicides of formula I will be demonstrated in the examples which follow.

Detailed Description Text (114):

Biological Example: Safening Effect

Detailed Description Text (115):

The test plants are grown under greenhouse conditions in plastic pots until reaching the 4 leaf stage. At this stage, the herbicides are applied to the test plants both on their own and in mixtures with the test substances that are to be tested as safeners. Application is effected in the form of an aqueous suspension of the test substances, prepared from a 25% wettable powder [example F3, b)] at 500 l water/ha. 3 weeks after application, the phytotoxic effect of the herbicides on the cultivated plants, such as maize and cereals, is evaluated on a percentage scale. 100% indicates that the test plant has perished, 0% indicates no phytotoxic effect.

Current US Cross Reference Classification (1):

504/106

Other Reference Publication (6):

Devine et al. Physiology of Herbicide Action. Section 17.4, "Safeners for herbicides". p. 376-387. 1993.

CLAIMS:

8. Selective herbicidal composition comprising, in addition to customary inert formulation assistants, such as carriers, solvents and wetting agents, as active ingredient a mixture of

a) herbicidally synergistic amount of a compound of formula I according to claim 1 and one or more compounds selected from the compounds of formulae 2.4, 2.13 and 2.16 according to claim 1 and

b) to antagonise the herbicide, an antidotally effective amount of a safener selected from the compound of formula 3.1 ##STR69##

and the compound of formula 3.2 ##STR70##

and the compound of formula 3.3 ##STR71##

and the compound of formula 3.4 ##STR72##

and the compound of formula 3.5 ##STR73##

and the compound of formula 3.6 ##STR74##

and the compound of formula 3.7 ##STR75##

and the compound of formula 3.8 ##STR76##

and of formula 3.9

Cl.sub.2 CHCON(CH.sub.2 CH.dbd.CH.sub.2) (3.9),

and of formula 3.10 ##STR77##

and of formula 3.11 ##STR78##

10. A method according to claim 9, wherein the rate of application of herbicides is 1 to 5000 g/ha and the rate of application of safeners is 0.001 to 0.5 kg/ha.

12. Herbicidal composition according to claim 9, which contains a) a herbicidally synergistic amount of a compound of formula I, a compound of formula 2.2 ##STR79##

(2.2, aRS,1'S(-)N-(1'-methyl-2'-methoxyethyl)-N-chloroacetyl-2-ethyl-6-methylani

line), as well as a compound selected from formula 2.4, wherein R.sub.7 is chlorine, R.sub.8 is ethyl and R.sub.9 is isopropyl, or R.sub.7 is chlorine, R.sub.8 is ethyl and R.sub.9 is tert.-butyl, formula 2.13, wherein Y.sub.1 is nitrogen, Y.sub.2, Y.sub.3 and Y.sub.4 are methine, R.sub.24 is dimethylaminocarbonyl and Y.sub.5 is methine, or Y.sub.1, Y.sub.2, Y.sub.3 and Y.sub.4 are methine, R.sub.24 is methoxycarbonyl and Y.sub.5 is methine, or Y.sub.1, Y.sub.2, Y.sub.3 and Y.sub.4 are methine, R.sub.24 is 3-trifluoropropyl and Y.sub.5 is nitrogen, or Y.sub.1 is nitrogen, Y.sub.2, Y.sub.3 and Y.sub.4 are methine, R.sub.24 is ethylsulphonyl and Y.sub.5 is methine, or Y.sub.1 is N--Me, Y.sub.2 is nitrogen, Y.sub.3 and Y.sub.4 together are C--Cl, R.sub.24 is methoxycarbonyl and Y.sub.5 is methine, and of formula 2.16, and b) to antagonise the herbicide, an antidotally effective amount of a safener of formula 3.1
##STR80##